

BLAGOVESHCHENSKAYA, N.S.
MALKINA, V.K., spets.redaktor; ~~BLAGOVESHCHENSKAYA, N.S.~~, spets.redaktor;
MORSHCHIKOV, V.D., redaktor; ~~BAKOV, S.I.~~, ~~tekhnicheskii~~ redaktor

[Work under the new wage scale; a collection of articles] Rabota
po novym tarifnym usloviyam; sbornik statei. [Moskva] Izd-vo
VTsSPS Profizdat, 1957. 125 p. (MLRA 10:9)
(Waged)

BLAGOVESHCHENSKAYA, Nataliya Sergeyevna; POPOV, A.S., red.; GOLICHENKOVA,
A.A., tekhn. red.

[Guidance of a trade-union committee on social competition] Rukovod-
stvo komiteta profsoiuza sotsialisticheskim sorevnovaniem. Moskva,
Izd-vo TsSPS Profizdat, 1961. 93 p. (Bibliotekhka profsoiuznogo
aktivista, no.14) (MIRA 14:11)
(Trade Unions) (Socialist competition)

BLAGOVESHCHENSKAYA, N.S.

Dynamic changes of hearing in tumors of the posterior cranial fossa and their interpretation according to Vvedenskii's theory on parabiosis. Vest. otorinolar., Moskva 14 no. 4:14-18 July-Aug. 1952. (CLML 22:5)

1. Candidate Medical Sciences. 2. Of the Otoneurological Division (Head -- Prof. O. G. Ageyeva-Maykova), Institute of Neurosurgery imeni N. N. Burdenko (Director -- Prof. B. G. Yegorov, Corresponding Member of the Academy of Medical Sciences USSR).

BLAGOVESHCHENSKAYA, N.S.

Brain - Tumors

Arachnoidal endothelioma of the posterior cranial fossa and resulting disturbance of function of the VIIIth nerve.
Vop. neirokhir 16, no. 4, 1952

BLAGOVESHCHENSKAYA, N.S., kandidat meditsinskikh nauk

Dynamics and compensation of the VIII nerve following surgery of medulloblastomas of the posterior cranial fossa. Vest. oto-rin. 16 no.4:29-33 J1-Ag '54. (MLRA 7:8)

1. Iz otonevrologicheskogo kabineta (zav. prof. O.G. Ageyeva-Maykova) Insituta neyrokhirurgii imeni N.N. Burdenko Akademii meditsinskikh nauk SSSR.

(CEREBELLUM, neoplasms,

*medulloblastoma, surg., postop. dynamics & compensatory funct. of acoustic nerve)

(MEDULLOBLASTOMA,

*cerebellum, surg., postop. dynamics & compensatory funct. of acoustic nerve)

(NERVES, ACOUSTIC,

*dynamics & compensatory funct. after surg. of cerebellar medulloblastoma)

BLAGOVESHCHENSKAYA, N.S.

Cochleovestibular disorders in differential diagnosis of tumors of the pons varolii. Vop. neurokhir. 18 no.3:49-56 My-Je '54.

(MLRA 7:8)

1. Iz otonevrologicheskogo kabineta Instituta neyrokhirurgii imeni akademika N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(PONS, neoplasms,

*manifest., cochleo-vestibular disord. in differ. diag.)

(COCHLEA, in various diseases,

*pontile tumors)

(VESTIBULAR APPARATUS, in various diseases,

*pontile tumors)

BLAGOVESHCHENSKAYA, N.S.

BLAGOVESHCHENSKAYA, N.S.

Cochleo-vestibulo-cerebellar disorders in medulloblastomas
of the posterior cranial fossa in children. Vop.neirokhir.
19 no.6:19-25 N-D '55. (MLRA 9:1)

1. Iz otonevrologicheskogo kabineta Instituta neyrokhirurgii
imeni akad. N.N.Burdenko.

(BRAIN, neoplasms,

medulloblastoma of posterior cranial fossa, cochleo-
vestibulo-cerebellar disord. in)

(MEDULLOBLASTOMA,

posterior cranial fossa, cochleo-vestibulo-cerebellar
disord. in)

EXCERPTA MEDICA Sec.11 Vol.10/11 Oto-Rhino-Laryngo Nov57
~~BLAGOVESHCHENSKAYA N.S.~~

2140. BLAGOVESHCHENSKAYA N.S. Moscow.*The mechanism of the
caloric test according to ECG recordings (Russian text)
VESTN. OTO-RHINO-LARING. 1957, 3 (71-78)

Changes of the EEG after caloric tests in patients with tumours of the posterior fossae of the cranium lasted from 2 to 8 min. These changes depended not so much on the state of the vestibular apparatus as on the preceding functional condition of the cerebral cortex, showing depression, exaltation of electrical activity or remaining unchanged. Changes in the EEG after calorization in patients lacking vestibular excitability, are apparently caused by thermo-tactile stimulation of the skin in the auditory channel. Hence, the caloric probe should be regarded as a complex stimulus.

(XI, 8*)

PETUKHOV, Georgiy Alekseyevich; BLAGOVESHCHENSKAYA, N.S., spetsred.;
VESELKINA, A.A., red.; RAKOV, S.I., tekhn.red.

[Wage schedule of workmen; aid to trade-union workers] Tarifnaya
sistema zarabotnoi platy rabochikh; v pomoshch' profsoiusnym
rabotnikam. Moskva, Izd-vo VTsSPS Profizdat, 1958. 94 p.
(MIRA 13:1)

(Wages)

BLAGOVESHCHENSKAYA, N.S., kand.med.nauk

Olfactory disorders in tumors of the posterior cranial fossa
[with summary in English]. Vest.oto-rin- 20 no.5:68-72 S-0 '58
(MIRA 11:12)

1. Iz otonevrologicheskogo kabineta (zav. - prof. OG. Ageyeva-
Maykova) Nauchno-issledovatel'skogo instituta neyrokhirurgii imeni
akademika N.N. Burdenko Akademii meditsinskikh nauk SSSR.

(BRIAN NEOPLASMS, complications

olfaction disord. in tumors of posterior cranial
fossa (Rus))

(SMELL,

disord. caused by tumors of posterior cranial fossa
(Rus))

BLAGOVESHCHENSKAYA, N. S.: Doc Med Sci (diss) -- "Auditory and vestibular disorders in the clinical treatment of tumors of the posterior cranial fossa". Moscow, 1959. 26 pp (Acad Med Sci USSR), 250 copies (KL, No 15, 1959, 119)

BLAGOVESHCHENSKAYA, N.S.

Absence of spontaneous nystagmus in tumors of the posterior cranial fossa. Vop.neirokhir. 23 no.5:30-33 S-O '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni akad. N.N. Burdenko AMN SSSR,
(BRAIN neoplasms)

BLAGOVESHCHENSKAYA, N.S.; KORNĬANSKIY, G.P.

Clinical aspects of cystic degenerative neurinomas of the eighth cranial nerve. Vop. neirokhir. 24 no. 3:48-52 My-Je '60.

(MIRA 14:1)

(ACOUSTIC NERVE--TUMORS)

ARENDET, A.A., zasl. deyatel' nauki prof.; ARKHANGEL'SKIY, V.V., kand. med. nauk; BLAGOVESHCHENSKAYA, N.S., doktor med. nauk; GAL'PERIN, M.D., prof.; KANDEL', E.I., kand. med. nauk; KORNYSKIY, G.P., prof.; KORST, L.O., doktor med. nauk; RAZDOL'SKIY, I.Ya., zasl. deyatel' nauki prof.; EMDIN, P.I., zasl. deyatel' nauki prof. [deceased]; EPSHTEYN, P.V.; DAVIDENKOV, S.N., prof., otv. red.; BOGOLEPOV, N.K., prof., zam. otv. red.; SENCHILO, K.K., tekhn. red.

[Multivolume manual on neurology] Mnogotomnoe rukovodstvo po nevrologii. Moskva, Medgiz. Vol.5. [Tumors of the nervous system] Opukholi nervnoi sistemy. . 1961. 570 p.

(MIRA 16:9)

1. Deystvitel'nyy chlen AMN SSSR (for Davidenkov). 2. Chlen-korrespondent AMN SSSR (for Razdol'skiy).

(NERVOUS SYSTEM--TUMORS)

BLAGOVESHCHENSKAYA, N. S., doktor med. nauk

Some characteristics of changes in the otolaryngological organs
caused by tumors of the posterior cranial fossa, Vest. otorin.
no.4:80-86 '61. (MIRA 15:2)

1. Iz otonevrologicheskogo kabineta Nauchno-issledovatel'skogo
ordena Trudovogo Krasnogo Znameni instituta neyrokhirurgii imeni
akad. N. N. Burdenko (dir. - deystvitel'nyy chlen AMN SSSR prof.
B. G. Yegorov) Akademii meditsinskikh nauk SSSR, Moskva.

(BRAIN—TUMORS) (OTOLARYNGOLOGY)

BLAGOVESHCHENSKAYA, Nataliya Sergeyevna; KANDEL', E.I., red.;
KUZ'MINA, N.S., tekhn. red.

[Topical significance of disorders of hearing, the
vestibular function, smell, and taste in brain lesions]
Topicheskoe znachenie narushenii slukha, vestibuliarnoi
funktsii, obonianiia i vkusa pri porazheniiakh golovnogo
mozga. Moskva, Medgiz, 1962. 271 p. (MIRA 15:3)
(BRAIN---DISEASES) (SENSES AND SENSATION)

YEGOROV, B. G.; FILIPPOV, M. M.; BLAGOVESHCHENSKAYA, N. S.; ZHUKOVICH, A.V.

In memory of Professor Ol'ga Grigor'evna Ageeva-Maikova. Vest.
otorin. no.1:122-123 '62. (MIRA 15:7)

(AGEEVA-MAIKOVA, OL'GA GRIGOR'EVNA, 1887-1961)

BLAGOVESHCHENSKAYA, N. S., doktor med. nauk

Etiology, clinical aspects and treatment of arachnoiditis of
rhinosinusogenic etiology. Vest. otorin. no.2:3-12 '62.
(MIRA 15:2)

1. Iz Instituta neyrokhirurgii imeni akad. N. N. Burdenko (dir. -
deystvitel'nyy chlen AMN SSSR zasluzhennyy deyatel' nauki prof.
B. G. Yegorov) AMN SSSR, Moskva.

(MENINGITIS) (SINUSITIS)

BLAGOVESHCHENSKAYA, N. S., doktor med. nauk

Otoneurological symptoms in tumors of the acoustic nerve. Vest.
otorin. no.3:83-91 '62. (MIRA 15:6)

1. Iz otonevrologicheskogo kabineta Instituta neyrokhirurgii
imeni akad. N. N. Burdenko AMN SSSR (dir. - deystvitel'nyy
chlen AMN SSSR zasluzhenyy deyatel' nauki prof. B. G. Yegorov),
Moskva.

(ACOUSTIC NERVE--TUMORS)

BLAGOVESHCHENSKAYA, N.S., doktor med.nauk

Study of hearing at various levels of lesion of the auditory tract. Vest.otorin. no.4:17-23 '62. (MIRA 16:3)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni instituta neyrokhirurgii imeni akad. N.N. Burdenko AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR zaslushennyi deyatel' nauki prof. B.G. Yegorov), Moskva.

(AUDIOMETER)

(HEARING)

BLAGOVESHCHENSKAYA, N.S., doktor med.nauk

Characteristics of otoneurological symptomatology in tumors of
the posterior cranial fossa in children. Probl.sovr.neirokhir.
4:235-241 '62. (MIRA 16:2)

(EAR)

(BRAIN—TUMORS)

BLAGOVESHCHENSKAYA, N.S.

Differential diagnosis of peripheral and central vestibular disorders. Otolaryng. Pol. 16 no.1:35-40 '62.
(VESTIBULAR APPARATUS dis)

BLAGOVESHCHENSKAYA, Nataliya Sergeyevna; SEGALOV, Viktor Yefimovich;
POPOV, A.S., red.; ANDREYEVA, L.S., tekhn. red.

[Organization of socialist competition in an enterprise] Organizatsiia sotsialisticheskogo sorevnovaniia na predpriatii. Moskva, Profizdat, 1963. 94 p. (Bibliotekha profsoiuznogo aktivista, no.15 (63)) (MIRA 16:12)
(Socialist competition)

BLAGOVESHCHENSKAYA, N.S.

Review of the book "Problems of scientific and practical
otorhinolaryngology." Vest. oto-rin. 25 no.4:97-98 Jl-Ag '63.
(MIRA 17:1)

BLA GOVESHCHENSKAYA, N.S.

Differential diagnosis between peripheral and central vestibular disorders. Zhur. ush., nos. 1 gorl. bol. 23 no.1:28-33 Ja-F '63. (MIRA 17:2)

1. Iz Nauchno-issledovatel'skogo instituta neyrokhirurgii imeni akademika N.N. Burdenko, Moskva.

BLAGOVESHCHENSKAYA, N.S.

Symposium on otoneuroophthalmology in Dresden. Vest. oto-
rin. 25 no.2:120-122 Mr-Apr '63. (MIRA 17:1)

FEL'DMAN, Samuil Pavlovich; BLAGOVESHCHENSKAYA, N.S., red.

[Otoneurology for the practicing physician; significance of clinical and practical methods of examining the acoustic and vestibular analyzers and otoneurologic syndromes in operative otiatrics] Otonevrologia prakticheskogo vracha; znachenie kliniko-prakticheskikh metodov issledovaniia zvukovogo i vestibuliarnogo analizatorov i otonevrologicheskikh sindromov pri operativnoi otologii. Moskva, Meditsina, 1965. 154 p. (MIRA 18:4)

BLAGOVESHCHENSKAYA, N.S., doktor med. nauk (Moskva)

Otoneurological symptomatology in neurinomas fo the acoustic
nerve in early stages. Vop. neirokhir. 28 no.1:49-52 Ja-F '64.
(MIRA 18:1)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni
institut neyrokhirurgii imeni N.N. Burdenko (direktor - prof.
B.G. Yegorov) AMN SSSR, Moskva.

BLAGOVESHCHENSKAYA, N.S.; DUBOVOY, A.B.; NIKITIN, D.P.; PETROV,
P.S., kand. ekon. nauk; MAKAROVA, E.A., red.

[Trade-union mass work to encourage production] Proizvod-
stvenno-massovaya rabota professional'nykh soiuzov;
uchebnoe posobie. Moskva, Profizdat, 1965. 222 p.

(MIRA 18:7)

1. Moscow. Vysshaya shkola professional'nogo dvizheniya.
2. Zaveduyushchiy kafedroy profsoyuznogo stroitel'stva
Moskovskoy vysshey shkoly professional'nogo dvizheniya
(for Petrov).

BLAGOVESHCHENSKAYA, Nataliya Sergeyevna; FRIDMAN, A.M., red.

[Otoneurological symptomatology in the clinical aspects of cerebral tumors] Otonevrologicheskaya simptomatika v klinike opukholei golovnogogo mozga. Leningrad, Meditsina, 1965. 254 p. (MIRA 18:9)

BLAGOVESHCHENSKAYA, O.V.

USSR/General Problems of Pathology - Tumors.

T-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12838

Author : Blagoveshchenskaya, O.V.

Inst : Not given.

Title : Teratomas of the Sacro-coccygeal Area in Children.

Orig Pub : Khirurgiya, 1957, No 7, 108-112.

Abstract : No abstract.

Card 1/1

USCOMM-DC-55,042

TERNOVSKIY, Sergey Dmitriyevich, zasl. deyatel' nauki, prof.
[deceased]; VOZDVIZHENSKIY, Sergey Ivanovich; DERZHAVIN,
Val'ter Mikhaylovich; KONDRASHIN, Nikolay Ivanovich;
BLAGOVESHCHENSKAYA, Ol'ga Vladimirovna; PRONIN, V.I.,
red.; PRONINA, N.D., tekhn. red.

[Treatment of chemical burns and cicatricial stenosis of
the esophagus in children] Lechenie khimicheskikh ozhogov i
rubtsovykh suzhenii pishchevoda u detei. Moskva, Medgiz,
1963. 134 p. (MIRA 17:3)

1. Chlen-korrespondent AMN SSSR (for Ternovskiy).

*

137-58-6-12978

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 257 (USSR)

AUTHOR: Blagoveshchenskaya, R.N.

TITLE: Anodizing and Coloring of Aluminum Articles (Anodirovaniye i okrashivaniye alyuminiyevykh izdeliy)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn. metallurgii SSSR, 1957, Nr 7, pp 26-27

ABSTRACT: Presentation of the experience of the Krasnyy Vyborzhets plant in anodizing (A) and coloring (C) of Al articles. The effect of the method of surface preparation and of the purity of the Al on the quality of A in a sulfate electrolyte was investigated. Electrochemical buffing (EB) of surface proved to be the best preparatory technique. During EB a matte lattice appears on A-1 grade Al. The formation of the lattice is observed in the presence of admixtures of (in %) Cu 0.006, Fe 0.18, and Si 0.15. During EB of Al containing (in %) Cu 0.005, Fe 0.003, and Si 0.009 the greatest brightness was achieved and no matte lattice was observed. Special attention was given to the rolling in of lubricant during the rolling of Al, because in that case even high-purity Al cannot be given a good surface during A

Card 1/2

137-58-6-12978

Anodizing and Coloring of Aluminum Articles

and EB. Process of coloring anodized Al articles golden, red, and lilac was investigated. Duration of C and temperature of the solution are determining factors of the intensity of coloration. Corrosion tests have shown that anodized and colored articles possess high corrosion resistance in food mediums.

B.K.

1. Aluminum--Electrolytic polishing
2. Aluminum--Surface properties
3. Aluminum--Color
4. Electrolysis--Applications

Card 2/2

BLAGOVESHCHENSKAYA, R. N.

136-8-6/21

AUTHORS: *Blagoveshchenskaya, R.N., Engineer and Sergeyev, L.N.*
~~Candidate of Technological Sciences~~

TITLE: Decorative Colouring of Polished Aluminium Objects
(Dekorativnoye okrashivaniye polirovannykh alyuminiyevykh izdeliy)

PERIODICAL: Tsvetnye Metally, 1957, Nr 8, pp.31-33 (USSR)

ABSTRACT: The authors describe attempts at the "Krasnyy Vyborzhets" works to produce a decorative coloured finish on a polished and patternless surface in connection with the manufacture of anodised, coloured ash-trays. D.G. Butomo and engineers L.S. Medvedeva and S.M. Naumchik of the works and Cand. Tech. Sc. S.N. Chernyak and engineer M.P. Peshkova of the imeni Voroshilov (imeni Voroshilova) works participated in this work. Experiments were made to find the influence on the quality of the product of polishing, anodizing, type of aluminium, lubrication during rolling, roll cleaning. Corrosion tests were also carried out. The experimental work described served as the basis for the successful development of the technological process now used, some features of which are mentioned in this article. The authors state that the chemical compositions of aluminium giving

Card 1/2

136- 8-6/21

Decorative Colouring of Polished Aluminium Objects.

best results with smooth, patterned or specially hard polished surfaces have been established and that the nature of the various surface defects appearing after electro-chemical corrosion has been elucidated.

There is one non-Slavic reference and two photographs.

ASSOCIATION: "Krasnyy Vyborzhets" Works (Zavod "Krasnyy Vyborzhets")

AVAILABLE: Library of Congress.

Card 2/2

VORNOVITSKIY, I.N., inzh.; MAZEL', A.G., kand. tekhn. nauk; ZASKO, F.A.,
inzh.; BLAGOVESHCHENSKAYA, V.V., inzh.

The VSTs-1 cellulose-coated electrodes for the welding of pipe-
lines. Svar. proizv. no.3:18-20 Mr '64. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu
magistral'nykh truboprovodov (for Vornovitskiy, Mazel').
2. Gosudarstvennyy proizvodstvennyy komitet po gazovoy promyshlen-
nosti SSSR (for Zasko). 3. Leningradskiy zavod im Zhdanova (for
Blagoveshchenskaya).

BABAYANTS, R.S.; BLAGOVESHCHENSKAYA, V.V.; VERGILESOVA, O.S.; VISSONOV, Yu.V.;
VYALOVA, N.A.; GLAZUNOV, I.S.; DRUTMAN, R.D.; KLEMPARSKAYA, N.N.;
KOTOVA, E.S.; KURSHAKOV, N.A., prof.; LARCHEVA, L.P.; LYSKOVA, M.N.;
MALYSHEVA, M.S.; PETUSHKOV, V.N.; RYNKOVA, N.N.; SOKOLOVA, I.I.;
STUDENIKINA, L.A.; CHUSOVA, V.N.; SHESTIKHINA, O.N.; SHULYATIKOVA,
A.Ya.; SHTUKKENBERG, Yu.M.; BARANOVA, Ye.F., red.

[Acute radiation lesion in man] Ostraya radiatsionnaya travma
u cheloveka. Moskva, Meditsina, 1965. 313 p.

(MIRA 18:9)

1. Chlen-korrespondent AMN SSSR (for Kurshakov).

BLAGOVESHCHENSKAYA, Ye.E.; GOL'TSMAN, F.M.; ROTSHTEYN, A.Ya.

Optimal method for measuring the frequency of free nuclear
precession in the presence of noise. Geomag. i aer. 5 no.3:
554-562 My-Je '65. (MIRA 18:5)

1. Leningradskiy gosudarstvennyy universitet i Institut zemnogo
magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR, Lenin-
gradskoye otdeleniye.

SMIRNOVA, M.V.; BLAGOVESHCHENSKAYA, Ye.V.; KUCHINSKAYA, N.Ye.; LEBEDEVA, Z.I.

Interrelation between nucleic acid metabolism and toxin biosynthesis
in Staphylococcus albus. Vop.med.khim. 10 no.3:274-279 My-Je '64.
(MIRA 18:2)

1. Otdel biokhimii Instituta epidemiologii i mikrobiologii imeni
Gamalei AMN SSSR, Moskva.

KOLENTSEV, Mikhail Timofeyevich; MASOVICH, Feliks Zinov'yevich;
RYKOV, Boris Vasil'yevich; BLAGOVESHCHENSKIY Roman
Viktorovich; ABRAMOV, V.I., inzh., otv. red.;
BOLDYREVA, Z.A., tekhn. red.

[Coal cutter loader K56M] Ugol'nyi kombain K56M. Moskva,
Gosgortekhnizdat, 1963. 134 p. (MIRA 17:3)

BLAGOVESHCHENSKAYA, V.A.

Pathological anatomy of amyloidosis. Trudy Kuib.med.inst. 11:246-
254 '60. (MIRA 15:8)

1. Iz kafedry patologicheskoy anatomii (zav. kafedroy prof. N.F.
Shlyapnikov) Kuybyshevskogo meditsinskogo instituta.
(AMYLOIDOSIS)

BLAGOVESHCHENSKAYA, V. S., master Vet Sci —(diss) "Curing cattle herds of brucellosis
by vaccination (in the Gorkiy oblast farms). Gorkiy, 1957, 16 pp. (All-Union
Inst of Experimental Vet Sci), 125 copies. (Kl, No40, 1957, p.94)

POMAZKOV, Yu.I., mladshiy nauchnyy sotrudnik; DUBINEVICH, B.N., starshiy nauchnyy sotrudnik (Mironovka, Kiyevskoy obl.); BLAGOVESHCHENSKAYA, V.S., agronom; BUGAYEV, I.D.; KULESHOV, L.A.; SHEREMET, I.V.; KONDAKOV, N.

Following up our articles. Zashch. rast. ot vred. i bol. 7 no.11: 18-19 N '62. (MIRA 1647)

1. Institut sadovodstva nechernozemnoy polosy (for Pomazkov). 2. Pochinkovskoye territorial'noye proizvodstvennoye upravleniye, Gor'kovskaya oblast' (for Blagoveshchenskaya). 3. Starshiy agronom Shatrovskogo otryada po bor'be s vreditelyami i boleznymi sel'skokhozyaystvennykh rasteniy (for Bugayev). 4. Nachal'nik Gomel'skogo otryada po bor'be s vreditelyami i boleznymi sel'skokhozyaystvennykh rasteniy (for Kuleshov). 5. Agronom po zashchite rasteniy sel'skokhozyaystvennoy arteli imeni Frunze, Kupenskogo rayona, Khar'kovskoy oblasti (for Sheremet). 6. Nachal'nik Chuvashskoy respublikanskoy stantsii zashchity rasteniy (for Kondakov).

FRUMIN, Semen Romanovich, kand. tekhn. nauk; BLOKH, Rafail' L'vovna, inzh.;
BLAGOVESHCHENSKAYA, Valentina Vladimirovna, inzh.; RYZHIN, Z.M., inzh.
red.; SHILLING, V.A., red. izd-va; GVIRTIS, V.L., tekhn. red.

[Ceramic fluxes for automatic and semiautomatic welding of low-carbon
steel] Keramicheskie fliusy dlia avtomaticheskoi i polnavtomaticheskoi
svarki nizeuglerodistoi stali. Leningrad, 1961. 23 p. Lenin-
gradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom.
Seria: Svarka i paika metallov, no.4) (MIRA 14:7)
(Steel—Welding)

BLAGOVESHCHENSKAYA, V.V., inzh.

Using peat instead of starch and dextrine in the manufac-
ture of electrodes. Svar. proizv. no.7:27-28 J1 '63.
(MIRA 17:2)

1. Leningradskiy zavod im. A.A. Zhdanova.

BLAGOVESHCHENSKAYA, V.S.

Low volume spraying in weed control. Zashch. rast. ot vred.
1 bol. 9 no.5:21 '64. (MIRA 17:6)

1. Glavnyy agronom po zashchite rasteniy Pochinkovskogo
proizvodstvennogo upravleniya, Gor'kovskaya obl.

"APPROVED FOR RELEASE: 06/08/2000

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DEBOV, S.S.; MARDASHEV, S.R.; VOTRIN, I.I.; BLAGOVESHCHENSKAYA, Ye.V.

Ribonucleic acid polymerization activity of desoxyribonucleoprotein
from the rat liver and cells from Ehrlich ascites cancer in mice.
Vop. med. khim. 10 no.1:92-94 Ja-F '64.

(MIRA 17:12)

1. Kafedra biokhimii I Moskovskogo ordena Lenina meditsinskogo insti-
tuta im. I.M. Sechenova.

USSR.

Use of dimethylphenylbenzylammonium as reagent for large anions. K. A. Yatsimirskii and V. I. Blyudskii, *Trudy Khimicheskoi Akademii Nauk SSSR*, 1968, No. 1, 2470. — The $\text{Me}_2\text{Ph}(\text{PhCH}_2)_2\text{N}^+\text{Br}^-$ was added to solns. of different anions. 1 pptd. $\text{Cr}_2\text{O}_7^{2-}$, $\text{S}_2\text{O}_8^{2-}$, $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{Fe}(\text{CN})_6]^{3-}$, and iodide. Sensitivity of these reactions was detd. The crystals were photographed. A soln. of ICl was mixed with 0.5 M conc. of each of the anions. With $\text{S}_2\text{O}_8^{2-}$ white dendrites pptd. from concd. solns. (above 0.5%). Dil. solns. gave crystals. A 1% ICl soln. did not form a ppt. in solns. contg. 0.1% $\text{S}_2\text{O}_8^{2-}$ but when a ICl crystal was added to 1 drop of such dil. $\text{S}_2\text{O}_8^{2-}$ soln., crystals of $\text{I}_2\text{S}_2\text{O}_8$ formed rapidly. Min. concn. was 1:2000, detectable min. 0.5% (vol. of drop is 0.001 ml.). Soln. of $\text{I}_2\text{S}_2\text{O}_8$ increased greatly by heating. The salt was recrystd. from hot H_2O , dried over H_2SO_4 , and analyzed for S and N. With $[\text{Fe}(\text{CN})_6]^{4-}$ yellow crystals, $\text{I}_2\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$, formed. Min. concn. was 1:2000, detectable min. 0.5%. Compn. was confirmed by N and $[\text{Fe}(\text{CN})_6]^{4-}$ detns. With $\text{Cr}_2\text{O}_7^{2-}$ yellow crystals with an unusual form pptd. from very dil. soln. Min. concn. was 1:2000, detectable min. 0.5%. Analysis for $\text{Cr}_2\text{O}_7^{2-}$ confirmed the formula $\text{I}_2\text{Cr}_2\text{O}_7$. With $[\text{Fe}(\text{CN})_6]^{3-}$, ICl gave a ppt. only in the presence of acid. These fine greenish cubes are much less sol. in H_2O than the ferricyanide salt. Min. concn. was 1:17,000, detectable min. 0.05%. Detn. of N and $[\text{Fe}(\text{CN})_6]^{3-}$ confirmed the formula $\text{I}_2\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$. From iodide solns. a crystal of ICl pptd. 1 iodide as confirmed by analysis. Min. concn. was 1:400, detectable min. 2.5%. Euzilla Mayerle

BLAGOVESHCHENSKAYA, Z.I.

Volumetric method for determining phenyldimethyl benzylammonium chloride (Leucotrope O). Izv.vys.ucheb.sav.; tekhn.tekst.prom. (MIRA 14:1)
no.6:116-119 '60.

1. Ivanovskiy gosudarstvennyy meditsinskiy institut.
(Dyes and dyeing—Analysis)
(Ammonium compounds)

CHISTYAKOV, N.M.; BLAGOVESHCHENSKAYA, Z.I.

Amount of some microelements in bee honey in connection with the
theory of biogeochemical provinces. K pozn.fauny i flory Ivan.obl.
no.1:76-79 '61. (MIRA 15:7)
(Honey—Analysis) (Trace elements)

BLAGOVESHCHENSKY, A.A.; CHIKALO, I.I.

Proteolytic enzymes from cotton seedlings. C.R. Acad. Sci. U.R.S.S.,
'49, 68, 885-888.
(BA - A III Ja '53:97)

BLAGOVESHCHENSKIY, A.B.; KUCHERNYUK, V.A.

Thermally stabilized amplifier with a relay characteristic.
Mash. i neft. obor. no. 3:26-28 '64. (MIRA 17:5)

1. Okiyabr'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo
i proyektno-konstruktorskogo instituta kompleksnoy avtomatizatsii
neftyanoy i gazovoy promyshennosti.

BLAGOVESHCHENSKIY, A.P.

Teaching drawing in sanatoriums for children with osteoarticular tuberculosis. Probl.tub. no.2:70 Mr-Apr '54. (MLRA 7:5)

(TUBERCULOSIS, OSTEOARTICULAR, in infant and child,

*teaching of drawing in sanatoria for osteoarticular tuberc.
(SANATORIA,

*teaching of drawing in sanatoria for osteoarticular tuberc.
in child)

BLAGOVESHCHENSKIY, A.P.

Homemade relief maps. Geog.v shkole 19 no.2:60-63 Mr-Ap '56.
(Relief maps) (MLRA 9:7)

BLAGOVESHCHENSKIY, A.P.; MYL'NIKOVA, A.N., inzh.:

Pneumatic cotton conveying to the head feeder. Tekst.prom. 18
no.4:53 Ap '58. (MIRA 11:4)

1. Nachal'nik remontno-montazhnogo otdela fabriki imeni Balashova,
g. Ivanovo (for Blagoveshchenskiy).
(Pneumatic machinery) (Cotton manufacture)

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C111, C222

16.3500

AUTHOR: Blagoveshchenskiy, A. S.

TITLE: Some correct problems for the ultra-hyperbolic and wave equations with data given on the characteristic cone

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 5, 1961, 990-993

TEXT: The author considers the integral equation

$$\psi(x) = \frac{1}{|x|} \int_{|z|^2=(x,z)} \frac{G(z)}{|z|^{n-2}} dS_z, \quad x=x_1 \dots x_n; \quad z=z_1 \dots z_n \quad (1)$$

Let n be odd, and let the operator D be defined by

$$P\varphi = \frac{1}{(2\pi)^{\frac{n-1}{2}}} \frac{1}{|z|^{\frac{n-1}{2}}} \frac{\partial^{\frac{n-1}{2}}}{\partial |z|^{\frac{n-1}{2}}} \int_{(x,z)=|z|^2} \varphi(x) dS_x \quad (2)$$

P is unitary, that can be concluded from the consideration of $S=P^*$.

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It holds

$$S\psi = \frac{1}{(-2\pi)^{\frac{n-1}{2}}} \frac{\partial^{\frac{n-1}{2}}}{\partial |x|^{\frac{n-1}{2}}} \left[|x|^{\frac{n-3}{2}} \int_{(z,x)=|x|} \frac{\psi(z)}{|z|^{n-3}} dS_z \right]. \quad (3)$$

Theorem 3: Let $\psi(x)$ ($x = x_1, \dots, x_n$) be an arbitrary $(n+1)$ times continuously differentiable function given for all x . Let exist a constant $C > 0$ so that it holds

$$\left| \frac{\partial^k \psi(x)}{\partial x_1^{\alpha_1} \dots \partial x_n^{\alpha_n}} \right| \leq \frac{C}{1+|x|^{\frac{n+1}{2}}} \quad (0 \leq \sum_{i=1}^n \alpha_i = k \leq n+1). \quad (5)$$

Then there exists a unique function $G(z) \in L_2$ being continuous in the whole space and two times continuously differentiable everywhere except of the coordinate origin, which satisfies (1). It holds

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$$G(z) = \frac{(-1)^{\frac{n-1}{2}}}{(2\pi)^{n-1}} \frac{\partial^{n-1}}{\partial |z|^{n-1}} \int_{(x,z)=|z|^2} \Psi(x) dS_x \quad (6)$$

Analogous results are valid for even n.

The theorem is used for solving the following problems:

Problem I: Determine a function $U(x,y) \equiv U(x_1, \dots, x_n, y_1, \dots, y_n)$ satisfying

$$\Delta_x U = \Delta_y U \quad (7)$$

$$U|_{|x|=|y|} = \varphi(x,y) \quad (8)$$

for $|x| < |y|$, where

$$\left| \frac{\partial^j \varphi(x,y)}{\partial x_1^{\alpha_1} \dots \partial x_n^{\alpha_n} \partial y_1^{\beta_1} \dots \partial y_n^{\beta_n}} \right| \leq \frac{C}{1+|x|^{\frac{5n-1}{2}}} \quad (0 \leq \sum \alpha_i + \sum \beta_i = j \leq n+1). \quad (9)$$

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If U exists then

$$\int_{|z|^2=r^2} U(x+z,y) dS_z = \int_{|z|^2=r^2} U(x,y+z) dS_z.$$

uX

Putting here $x = 0$, $r = |y|$ then it follows

$$\int_{|z|^2=|y|^2} U(0,y+z) dS_z = \int_{|z|^2=|y|^2} \varphi(z,y) dS_z \quad (10)$$

i.e. the integral equation (1) for $U(0,y)$. After the determination of U in all points $\{0,y\}$ then U can be found in an arbitrary point

$\{x,y\}$ ($|x| < |y|$) with the aid of the ultra-Lorentz transformation of $\{x,y\}$ in $\{0,y'\}$. The solution has the form

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$$U(x,y) = C_n \frac{|y|^2 - |x|^2}{\lambda + 1} \int \frac{\varphi(\xi, \eta)}{|\xi|} \|y - \eta\| - |x - \xi|^2 \lambda \, dS_{\xi, \eta} \Big|_{\lambda = -n} \quad (11)$$

where the integral is extended over the whole cone $|\xi|^2 = |\eta|^2$ and C_n is a constant depending on n . The obtained function $U(x,y)$ is a solution of the problem I and is unique in the class of functions satisfying the condition

$$|U(x,y)| \leq \frac{A(x)}{(|y|^2 - |x|^2)^{\frac{n-2}{2}} \left[1 + (|y|^2 - |x|^2)^{\frac{n+1}{4}} \right]},$$

Problem II: Determine a $U(x,t)$ which outside the characteristic cone $|x|^2 = t^2$ satisfies

$$U_{tt} = \Delta_x U \text{ for } t < |x|, \quad t > 0 \quad (12)$$

and

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$$U|_{t=|x|} = \varphi(x) \quad (13)$$

$$U|_{t=0} = 0 \quad (14)$$

where $\varphi(x)$ satisfies (5). If $U_t|_{t=0} = \theta(x)$ then by the solution of an ordinary Cauchy problem one obtains

$$U(x,t) = \frac{1}{2\pi} \frac{n-1}{2} \frac{1}{\Gamma(\lambda+1)} \int \left[t^2 - |x-\xi|^2 \right]_+^\lambda \theta(\xi) d\xi \Big|_{\lambda = -\frac{n-1}{2}}.$$

Writing this solution for $|x|=t$ then it again leads to an equation (1) for θ . Its solution (for odd n) reads

$$\theta(2z) = \frac{1}{(-4\pi)^{\frac{n-1}{2}}} \frac{1}{|z|^{\frac{n-1}{2}}} \frac{\partial^{\frac{n+1}{2}}}{\partial |z|^{\frac{n+1}{2}}} \int \varphi(x) dS_x + \sum_{k=0}^{\left[\frac{n-1}{2}\right]} C_k \left(\frac{z}{|z|}\right) |z|^{-2-k}, \quad (15)$$

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Some correct problems for the . . .

where the C_k are arbitrary functions of the unit vector ω .

There is 1 figure and 3 Soviet-bloc and 2 non-Soviet-bloc references.
The reference to the English-language publication reads as follows:
F. John, Duke Math. J., 4, 300 (1938).

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni A. A.
Zhdanova (Leningrad State University imeni A. A. Zhdanov)

PRESENTED: May 23, 1961, by V. J. Smirnov, Academician

SUBMITTED: May 6, 1961

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BLAGOVESHCHENSKIY, A.S.

Problem for an ultrahyperbolic equation with data on a characteristic
plane. Vest IGU 20 no.13:13-19 '65. (MIRA 18:7)

BLAGOVESHCHENSKIY, A.S. (Leningrad)

Characteristic problem for an ultrahyperbolic equation. Mat. sbor.
63 no.1:137-168 Ja 64. (MIRA 17:3)

112

Physiology of the cotton plant infested by red spiders (*Eritetranychus*). BLAGO-
 VESICHENSKII, W. A. BOGOLYUBOVA AND N. I. SOBOLEV. *Trudov Vsesoyuz. Nauchno-
 Issledov. Inst. Khlopkovod., Khlopkov. Prom. i Irrigatsii (Trans. Sci. Inst. Cotton
 Culture, Ind. and Irrigation) Byull.* 23, 1-20 (1960).—It is shown that infestations by
 red spiders bring about (1) a disturbance in stomata causing them to open wider,
 (2) a lower diffusion of gases and water vapor through the stomata; (3) a lowering
 of the water content of leaves; (4) a depression in photosynthesis; (5) a speeding up
 of the process of respiration; (6) a decrease of chlorophyll in the leaves; (7) a lowering
 of the carbohydrate content of the leaves and a still greater lowering of N; (8) a decrease
 in amino N; (9) an increase of Mg in the leaves. J. S. Jovan

ASH 51.4 METALLURGICAL LITERATURE CLASSIFICATION

ca

78

Protein and the other nitrogen compounds of the normal beet juice. A. V. BLAOG-
VYANCHENSKI AND R. V. FENIKBOVA. Zbor. Sakharnoi Prom. 5, 408-10(1931).—
Protein dissolved in normal juice when isolated contains a large content of a dark pig-
ment with small (11%) N content and large (7.34%) ash content. According to this the
protein of the beet root is similar to the mangold root protein. The mangold root pro-
tein contains a larger amt. of arginine and cystine than beet-root protein. The other
characteristics of both proteins are similar.
V. E. RAIKOW

TOP AND 4TH CUBES		TOP AND 4TH CUBES	
PROCESSING AND PROPERTIES INDEX			
Changes in the nitrogen compounds of sugar beets during long storage. A. V. BIZANOVICH, T. M. IVANOVA AND F. D. IONOV. <i>Zhur. Sakharov Prom.</i> 5, 411-13(1931).—During long storage of sugar beets under sterile conditions, the protein N progressively increases. The synthetic processes in the group of N substances may be replaced by a hydrolysis. The hydrolysis is caused by the acidity of the beet roots, which influences the activity of proteolytic enzymes. V. E. BAIKOV			
ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION			
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8300: 574 0310A		8300: 50410V	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

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7

Determination of amino nitrogen in plant products. A. V. Blagoveshchenskiy. *J. Sugar Ind. (U. S. S. R.)* 5, 526-8(1931); *Sugar Abstracts (in Facts About Sugar)* 27, 402.—Direct titration of amino acids in aq. soln. with thymol blue ($pH = 9.1$) and benzenazo- α -naphthylamine ($pH = 12$) indicators gives values equal to those obtained by the Sorensen, Willstätter, Waldechmidt-Leitz and Linderstrom-Lang methods. This method (originated by Felix-Muller) is applied to the detn. of amino N in sugar beets and for the investigation of proteolysis. The existence of proteolytic enzymes in sugar beets is demonstrated. E. H.

ASB-35A METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND CROSS										3RD AND 4TH CROSS									
PROCESSES AND PROPERTIES INDEX																			
ca 12 Nature of the autolytic processes in the silage stage. A. Y. Blagoveshchenskiy, S. R. Rukhin and R. V. Fank- sova. Trans. Central Sci. Research Inst. Sugar Ind. (U. S. S. R.) No. 12, 64-68 (in German 63) (1953). Foliage of oats and beans in equal parts was cut, mixed together and divided into 5 portions. Part one was immediately analyzed; the second part was stored for 5 days in a glass jar with a safety valve. No chemicals were added. The third part was stored in a hermetically sealed jar with toluene, the fourth with lac. acid and the fifth with a mixt. of lactic acid and toluene. Analysis for total N did not give pos. results owing to formation of volatile nitrogenous compounds. Analysis for albumin and pep- tone N indicated strong decomposition during the silage stage. Amino acid content increased. Silaged beet foliage showed no decrease in albumin N, but diminished amino acid content. Carbohydrate content is sharply de- creased with normal silage. Addn. of antiseptics in- creases the carbohydrate content. The above expts. show that antiseptics minimize the loss of organic substances during the silage stage. N. N. Menshik																			
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11A

PROCESSES AND PROPERTIES INDEX

Reversible action of histosyme. A. V. Hlagovshchenskii and K. A. Nikolaev. *Biochem. Z.* 276, 368-78 (1985). Phosphate buffer exts. from dry preps. of takadiastase split hippuric acid. The action of the histosyme is inhibited by cysteine but is once more restored to its original strength by the addn. of Fe. Such oxidizing agents as O_3 , H_2O_2 or benzoquinone inhibit the histosyme. In the presence of oxidizing agents and of energy-yielding substances histosyme from takadiastase synthesizes hippuric acid from glycine and $PhCH_2OH$. S. M.

ASAC SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND CODES										3RD AND 4TH CODES									
PROCESSING AND PROPERTIES INDEX																			
Adaptation of proteolytic enzymes in <i>Aspergillus niger</i>. A. V. Blagoveshchenskii and E. I. Bilanikova. <i>Bull. biol. med. exp. U. R. S. S. I.</i> 194-5(1938); <i>Physiol. Abstracts</i> 22, 738. — <i>Aspergillus niger</i> was cultivated on protein-free and protein-contg. substrates; the proteolytic enzymes are shown to adapt themselves to the substrate. M. W. B.																			
ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION																			

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ca

Chemical composition of the leaves and conditions of cultivation. A. V. Blagoveshchenskii. *Sovet Subtropiki* 1936, No. 10, 18-23; *Chemical & Biological ST.* 1175.—The effect of nitrogenous fertilizers on the chem. compn. of tea leaves is relatively small; they decrease slightly the total N, caffeine and tannin contents, but increase the crop yield. P fertilizers act in the same direction, but more strongly, on the total N and caffeine contents, but increase (very slightly) the tannin content. In both cases the effect on the activity of the catalase is very slight. Exposure of the plants to sunlight plays a large part; shade favors the increase of total and protein N and the activity of the catalase and of the peroxidase without modifying the caffeine and tannin contents. A. P. C.

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ca

THE EFFECT OF CHLORIDE ION ON THE CHLOROPHYLL CONTENT AND PHOTOSYNTHESIS OF THE POTATO PLANT. A. V. Blagoveshchenskii and S. S. Bantsevskaya. *Bull. soc. naturovistes Mosk., Sect. biol.* 45, 410-18 (English summary 418) (1936).
 ...In all cases studied the effect is to cause poisoning of the chloroplasts with resultant decrease in the energy of photosynthesis. Tabulated data. John Livak

ASB-55A DETAILURGICAL LITERATURE CLASSIFICATION

FROM SYMBOL	(8000) REF ONE ONE	COLLECTION	REF ONE ONE
120000 01	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSING AND PROPERTIES INDEX																			
6a Differences between enzymes of the same name but of different origin. A. V. Blagoveshchenskii. <i>Biokhimiya</i> 2, 154-57 (1937). - The ability to lower the energy of activation of the catalyzed reaction is taken as the criterion for the activity of the catalyst. The question arises as to whether this ability is a const. for the given enzyme. Is the blood catalase of a guinea pig identical with the blood catalase of other animals, and with the plant catalase? Are the enzymes of young and old organisms identical? Is the quality of the enzyme the same in normal and pathol. states? B. had previously presented the view that the development of plant life is in the direction of a gradual decrease of the energetic potential of the organism, a fall which is accompanied by a tendency to evolve and accumulate cyclic, stable and unreactive compds. of the type of alkaloids, cyclic terpenes, etc. It was therefore of interest to det. whether this same tendency is not shown by enzymes; i. e., do not phylogenetically old plants show a higher energy of activation in the decompos. of H_2O_2 than plants relatively young from the standpoint of evolution. Expts. in the reaction rate of decompos. of H_2O_2 by the catalases of various plants, and calcn. of μ, the energy of activation by the Arrhenius formula, have shown that the phylogenetically old plants (as <i>Cinchona succirubra</i>) possess a higher energy of activation than young plants (<i>Atropa albastris</i>). In other words, "old" plants require more energy for the decompos. of a mol. of H_2O_2. The energetic potential of these plants is lower than in plants phylogenetically young. The value of μ for the blood catalase of a guinea pig was found to be equal to 4500 g. cal., that of <i>Hamadryas hamadryas</i>, 15,100 g. cal. and for a rabbit, 1700 g. cal. The av. energy of activation of the autolytic enzyme (proteolysis) for young guinea pigs is $\mu = 1100$ g. cal. for adults, $\mu = 4300$ g. cal. and for "old," $\mu = 14,800$ g. cal. In other words, during proteolysis, a fall of the energetic level of the enzyme system, due to aging, is observed. H. Cohen																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
SECTION 1										SECTION 2									
SECTION 3										SECTION 4									

The influence of the conditions of growth on the vitamin C content of certain plants. A. V. Blagovishchenskii. *Phyl. bot. mtd. expl.* 11. R. 3. 5. 3. 3. (1931-1932).

Brassica napus esculenta, *B. m. rapifera*, *B. rapa rapifera*, *Brassica caulorapa*, *Raphanus sativus tristis*, *R. s. B. oleaceae caulorapa*. *Raphanus sativus* were grown at altitudes 2000 and 3000 m. above the sea level. The *radicula* and *Solanum tuberosum* were grown at altitudes of 2000, 2550 and 3000 m. above the sea level. The ascorbic acid content (method of Deviatnik, cf. C. A. 20, 20414) markedly increased with the increase in altitude.

S. A. Corson

S. A. Corson

ASD.SLA METALLURGICAL LITERATURE CLASSIFICATION

WLM 954170

1941-1942

The conditions underlying the reversible action of the proteolytic enzymes of wheat. A. V. Blagoveshchenskiy and M. P. Yurgenson. Bull. biol. med. exp. U. R. S. S. No. 232-4(1937).—Anaerobic conditions (produced by bubbling CO₂) accelerated the splitting of wheat gluten by proteolytic enzymes, while H₂O₂ favored the resynthesis of the gluten. The resynthesis was especially marked in the presence of H₂O₂ and peroxidase (obtained from horse-radish according to Willstätter).

S. A. Conon

1ST AND 2ND ORDERS																									
PROCESSING AND PROPERTY INDEX													1ST AND 2ND ORDERS												
Oxidation reduction systems in photosynthesis. A. V. Diagovskiy Bull. Biol. Med. Expt. 1 R. S. S. S. An increase in photosynthetic activity was accompanied by a proportional increase in catalase activity and a decrease in the reduced form of ascorbic acid of the leaves of <i>Cydonia rostrata</i>, <i>Olea fragrans</i>, <i>Citrus aurantium</i>, <i>Wistaria chinensis</i>, <i>Buxus sempervirens</i> and <i>Rosa</i> S. A. Corson																									
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PROCESS AND PROPERTIES INDEX																									
The role of oxidation-reduction systems in the process of photosynthesis. A. V. Blagoveshchenskiy. <i>Bull. biol. med. exp.</i> U. S. S. R. 3, No. 3, 222-3 (1957); <i>Khim. Refert. Zhur.</i> 1, No. 1, 89 (1959).--The day-time dynamics of the photosynthesis energy, the activity of catalase and the compn. of the reduced form of ascorbic acid in leaves of different plants were investigated. With an increase of the photosynthesis energy the activity of the catalase is increased, and the amt. of the reduced form of ascorbic acid is decreased. B. thinks the ascorbic acid is used up in the process of photosynthesis. W. R. H.																									
ASB-11A METALLURGICAL LITERATURE CLASSIFICATION																									
100000 110000 120000 130000 140000 150000 160000 170000 180000 190000 200000 210000 220000 230000 240000 250000 260000 270000 280000 290000 300000 310000 320000 330000 340000 350000 360000 370000 380000 390000 400000 410000 420000 430000 440000 450000 460000 470000 480000 490000 500000 510000 520000 530000 540000 550000 560000 570000 580000 590000 600000 610000 620000 630000 640000 650000 660000 670000 680000 690000 700000 710000 720000 730000 740000 750000 760000 770000 780000 790000 800000 810000 820000 830000 840000 850000 860000 870000 880000 890000 900000 910000 920000 930000 940000 950000 960000 970000 980000 990000																									

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11 I

The quality of blood catalase in warm blooded and cold-blooded animals. A. V. Ilagoveshchenski and A. V. Vaidova. *Bull. biol. med. expl. P. R. S. S. S.* 3, 415-18. (1937) (in English).--The authors measured blood-catalase activity at 0° and 10°, computed $K = 1.7 \ln \frac{a}{a-x}$, and $E_a = 1.088$ in $K/a, T_1, T_2, T_3, \dots, T_n$. The values found for E_a were: dog, 2,200; dog, 2,700; cat, 3,000; bear, 7,000; hedgehog, 1,500; *Marmota m. flaviventris* Shaw, 13,100; *Marmota m. marmota*, 12,000; pheasant, 5,200; quail, 4,700; sparrow, 3,300; guinea pig, 6,000; rabbit, 10,200; hamadri, 10,500; Armenian viper, 17,050. In most cold-blooded animals blood catalase was destroyed at 10°. The E_a values are low in young animals. Walter H. Seygers.

11 I

PROCESSING AND PROPERTY INDEX																									
1ST AND 2ND GROUPS													3RD AND 4TH GROUPS												
<i>Ca</i> The nature of liberation of hexone bases by the action of polypeptidase on the peptic hydrolyzate of a protein A. V. Blagoveshchenskii and R. V. Sukhareva. <i>Arch. 57, 222 (U. S. S. R.) 43, No. 1, 111-14 (in English 191) (1967).</i>—The seed globulin of <i>Carthamus tinctorius</i> L., exhd. with 2% NaCl soln., contains 17.3% total N, and yields on acid hydrolysis: tyrosine 5.82, histidine 4.07, arginine 13.83, and tryptophan 1.91%. After 12 hrs. digestion with pepsin at 36°C, yeast polypeptidase was added and the liberation of arginine (I), histidine (II) and lysine (III) was detd. at 12-hr. intervals. The rate of liberation of I was considerably slower than that of II and III, indicating that I occupies "a more central position in the protein mol." than II and III. W. A. P.																									
COMMON ELEMENTS OPEN MATERIALS INDEX ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION 83001 57101114 83001 830179 831121 001 001 151																									

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Qualitative differences of enzymes. A.V. Blagoveshchenskiy. *Enzymologia* 2, 203-14(1938); cf. C. A. 31, 1938. The ability of plant catalases to diminish the activation energy of the decompn. of H_2O_2 is related to their phylogeny while that of blood catalases differs in different animals. The autolytic proteinases of muscle of old animals have higher activation-energy values than those of young animals while the values of polypeptidases of leaves vary with different plants. The values for various enzymes in the same plant are approx. equal and det. the energy level of the whole plant. B. C. P. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Enzyme changes during the development of malignant tumors. A. V. Blagoveshchenski, A. S. Konikova and A. V. Vadova. *Nova* 1978, 1978 (U. S. S. R.) 51, No. 3, 145-52 (in English, 182)(1828).--The temp. coeff. and activation energies of proteolysis and H_2O_2 decompos. by catalase show an abrupt decrease at the onset of tumor development, followed by a steady increase until the death of the animal. S. A. Karjala

ASS. 3.4 METALLURGICAL LITERATURE CLASSIFICATION

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ca 11F Factors of constructive metabolism A. V. Ilaguvich. <i>Chim. Akts. Med. (U. R. S. S. R. 817 35(1930)78</i> (English).—An energy-yielding oxidation reaction is necessary for synthetic enzymic reactions. The energy liberated by an oxidation reaction drives synthetic reactions which proceed endothermically. The energy of the oxidation-reduction can accumulate in the enzyme condition- ing the synthetic and be transferred therefrom to the re- acting synthetic system. Felix Saunders									
ASM-SCA METALLURGICAL LITERATURE CLASSIFICATION									
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1ST AND 2ND ORDERS										100 AND 10M CATEGORIES									
PROCESSES AND PROPERTIES INDEX																			
CA Utilizing oxidizing systems in the baking of bread from spoiled flour. A. V. Blagoveschenskiy. <i>Khlebopechenaya Prom.</i> 1939, No. 4, 17-18; <i>KAFK. Referat. Zhur.</i> 1940, No. 3, 126.—The following substances were used to improve the properties of flour: lactic acid, H_2O_2, $KBrO_3$, lactic acid + H_2O_2, lactic acid + $KBrO_3$, and lactic acid + H_2O_2 + peroxidase. The Will-tatter method for producing peroxidase is described. Optimum results were obtained with the system lactic acid 0.25% + H_2O_2 0.1% + peroxidase. Standard-grade bread was obtained from badly spoiled flour. W. R. Henn 12																			
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
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PROCESSING AND PREPARATION INDEX

Influence of dipeptide structure on the values of the thermal coefficients of enzymic hydrolysis. A. V. Ilagovschenskii. *Biokhimiya* 4, 737-41 (1939); *Tr. Khim. Akad. Nauk SSSR*, 1939, 1, 103-107; *Chem. Abstr.* 34, 222. — halden, G. C. and L. Pincusohn, *C. A.* 4, 222. — The values of Q_{10} (temp. coeff.) and μ ($= \ln Q_{10} RT_1/T_2 / (T_2 - T_1)$), resp., for the dipeptide hydrolysis with Kahlbaum's dipeptidase, erepsin, are for glycyl-L-leucine, 2.4, 10.0; L-leucyl-glycine, 1.46, 6.6; L-leucyl-L-tyrosine, 1.70, 9.6. When the dipeptidase of germinated seeds of *Lupinus angustifolius* is used, Q_{10} and μ for glycine-L-leucine are 1.71, 9.8; leucyl-L-tyrosine, 1.34, 5.3. Dipeptides with free amino groups possess higher Q_{10} and μ . H. Priestley

ASAC 51.4 METALLURGICAL LITERATURE CLASSIFICATION

100 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1st AND 2nd DEGREE										3rd AND 4th DEGREE									
PROCESSES AND PROPERTIES INDEX																			
2A Biochemical evaluation of plants in connection with the change in the quality of enzymes. A. V. Blagoveshchenskii. <i>Uspehi Sovremennoi Khim.</i> 11, No. 2, 320-39 (1939); <i>Khim. Referat. Zhur.</i> 1940, No. 4, 30. — On the basis of exptl. data, it advances the opinion that the energy of activation of enzymic reactions is higher in the relict, regressing groups of live organisms and lower in the progressively developing groups. During the evolutionary process there is possible a change of the organisms not only to a lower energy level (increase of the energy of activation), but also to a higher level (decrease of the energy of activation). W. R. Henn																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
1st DEGREE										2nd DEGREE									
3rd DEGREE										4th DEGREE									

The factors of synthetic processes in plants. A. V. Blagoveshchenskii. *Trudy Moshov. Doma (Ichenykh i Tsv. Bionhim. Akad. Nauk S. S. S. R. 1940, No. 4, 13-21; Khim. Referat. Zhur. 4, No. 9, 70(1941).*—On the basis of a no. of exper. data it is concluded that when the synthetic processes predominate over the hydrolytic processes the energy required for the syntheses is obtained from the oxidation reactions. A change in the enzyme is assumed that permits the enzyme to transfer the energy required for the synthesis to the reacting substances. W. R. H.

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PROCESSES AND PROPERTIES INDEX			
The role of the oxidation-reduction systems in photosynthesis. V. A. Blagoveshchenskii, Jr. <i>Izvestiya Akad. Nauk S.S.S.R. Khim. Nauk</i>, No. 4, 67-68; <i>Khém. Referat. Zhur.</i>, 6, No. 6, 67 (1941).--Leaves of a no. of tropical and subtropical plants of the Black Sea coast of the Caucasus were used for the exps. The activity of catalase increased, and the content of ascorbic acid (sum of both forms) and the activity of peroxidase decreased during the day, when the photosynthetic energy was greater. The following scheme for photosynthesis is proposed: (1) the photochem. phase: activation of H_2CO_3, in which chlorophyll takes part as the photosensitizer; (2) the dark phase--reduction of H_2CO_3 to CH_2O, with the assistance of ascorbic acid acting as a donor of H; (3) the photochem. phase: photolysis of water and reduction of dehydroascorbic acid to ascorbic acid with the formation of H_2O_2; (4) the dark phase: decompu. of H_2O_2 by catalase. W. R. Henn			
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Temperature quotients of protein cleavage by proteolytic enzymes. A. V. Blagoveshchenskii and N. A. Kudryashova. *Biochimiya* 9, 248-55 (1944).--A study was made of the digestion of gelatin, casein, edestin, gliadin, phoscolin, and azanadin by the enzymes papain, trypsin, and the papainase from germinated seeds of *Phaseolus aureus*. The velocity and temp. quotients are specific for a particular enzyme and substrate, but are different for various proteins acted on by the same enzyme, or for a particular protein treated with different enzymes. In the hydrolysis of phoscolin and edestin by the proteinase of *Phaseolus aureus*, the rate of digestion and the lowering of the energy of activation are much less when the exogenous protein edestin is used than when the endogenous protein phoscolin is employed. Different temp. quotients indicate different stabilities in the peptide bond.

H. Priestley

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Biochemical factors of natural selection in plants. A. V. Blagoveshenskii (Central Asiatic Imperial Univ. of Tashkent). <i>Gen. Biol.</i> (U.S.S.R.) 6, 217-31(1945) (English summary). - The enzymic and nonenzymic antibacterial substances produced by an organism obviously play an important role in its well-being. By suppressing or completely destroying the interfering bacteria they permit more complete utilization of the nutrient substrate. Employing the protein of <i>Yersinia dakkae</i>, and <i>Escherichia coli</i> as an antigen to immunize rabbits and subsequently using the serum to det. the resistance of cotton plant to these wilts, Fedotova was able to identify the resistant varieties by a negative reaction of their seeds. It assumes that the spores of forerunners of present parasites were carried accidentally into a particular plant; in the course of growth some protein of the host		entered the fungus, which responded with the formation of antibodies, proteolytic enzymes specific against a foreign protein. The non-resistant varieties are possibly those against which the fungus developed an antibody; the resistant varieties do not react with this antibody. If the resistance of a plant towards a parasite depends on the character of the enzyme systems of both the host and the guest, then it is also possible that other forms of resistance are connected with these factors. In expts. with a variety of barley grown at different altitudes it was demonstrated that the higher the altitude the higher the quality of their enzymes, the less external energy is required to decompose H₂O₂; the seeds were more adapted to severe conditions, and the velocity of their reaction was less dependent on external temperatures. The stimulating effect of chilling on the catalase of cucumber sprouts, where the activity of the chilled specimen was increased 1250 times. According to Lyubentsov potato tubers kept for 10 days at 1° developed a more powerful root system and grew much faster than the controls. These factors show developments favoring the progress of the plant growth and are connected with definite biochem. processes related to an increased energy level of the enzyme. To the extent that these enzyme proteins form the basis of the protoplasm it is possible to refer to this activity as the higher energy level of the entire organism. Investigation is in progress as to the extent to which the formation of biogenic stimulators can be related to increased morphological changes.		110	
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1ST AND 2ND COBERT										3RD AND 4TH COBERT									
PROCESSES AND PROPERTIES INDEX																			
QA Growth of roots as stimulated by certain organic acids A. V. Blagoveshchenskii and A. Yu. Kologrivova (Central Asia State Univ., Tashkent). <i>Compt. rend. acad. sci. U.R.S.S.</i> 48, 440 3(1945) (in English). The growth of rootlets of germinating seeds of <i>Phaseolus aureus</i> as effected by succinic (I), fumaric (II), oxalic (III), aspartic (IV), and cinnamic (V) acids was detd. These acids were chosen because they were considered to be possible conversion products of amino acids influenced by chilling. The seeds were grown at 20° in Petri dishes contg. 10 ml. of test solns. After 1-4 days, detns. were made of increase in either vol. of seedlings or length of rootlets. Solns. (0.001 M) of I had a stimulating effect, II and IV acted as depressants, and III completely suppressed development. V at concns. of 0.001-0.00025 M inhibited growth, but at 0.000167 M to 0.000125 M proved a stimulant. I and IV at 0.0005 and 0.000125 M also stimulated growth. Carl S. Gilbert 11 D																			
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1ST AND 2ND ORDERS																									
PROCESSES AND PROPERTIES INDEX																									
CA Activation of catalase by biogenic stimulants. A. V. Ilagoveshchenskii and A. Ya Kologrivova. (1964). <i>Tr. Vses. Nauch. Akad. Khim. Nauch. U.S.S.R.</i> 48, 671-674 (1965) (in English). Chilling bean (<i>Phaseolus aureus</i> Roth.) seedlings at 1° for 1 week increased the activity of bean catalase, and decreased the thermal coeff. of the enzyme. The rate const. of the splitting of H_2O_2 at 15° and 25° increased from, resp., 29.7×10^{-4} and 54.3×10^{-4} in controls to 43.2×10^{-4} and 63.0×10^{-4} in chilled seedlings. These results might indicate that an alteration in the protein of the catalase occurred, or it might mean that some special activating substance formed during the chilling process. To test this exts. from chilled seedlings were ground, pressed, and the proteins of the juice were coagulated by boiling, and filtered. The filtrates were sterilized by autoclaving at 120°. Such filtrates by themselves were unable to decompose H_2O_2. When 2 cc. aliquots of these exts. or 2 cc. water controls, were added to ground normal germinated seeds in phosphate buffer at pH 7, more O_2 was liberated from H_2O_2 when the juice was added than in the water controls. In the presence of the ext. the enzyme is more stable at 15° than at 25°, hence a thermal protecting factor might be involved. Bruno Vassel																									
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BLAGOVESHCHENSKIY, A. V.

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T. VI, vyd. 2, 1949, s. 70-77.--Bibliogr: 17 nazv.

D. Mikrobiologiya
(Sm. takzhe--XXII, 12 A)

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